

WHAT IS CLAIMED IS:

Sub B11  
1. An immortalized cell established from a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced.

2. The immortalized cell according to claim 1, wherein the transgenic animal is a rat.

Sub B12  
3. An established cell derived from retinal capillary endothelial cells, which expresses a temperature sensitive SV40 large T-antigen gene, GLUT-1 transporter, and p-glycoprotein.

4. The established cell according to claim 3, having a deposition number of FERM BP-6507.

Sub B13  
5. A method of establishing an immortalized cell which expresses a temperature sensitive SV40 large T-antigen gene, GLUT-1 transporter, and p-glycoprotein, the method comprising treating retinal capillary vessels of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced with protease and subculturing the resulting cells.

6. An established cell which expresses a temperature sensitive SV40 large T-antigen gene, GLUT-1 transporter, and p-glycoprotein, the cell obtained by treating retinal capillary vessels of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced with protease and subculturing the resulting cells.

7. An established cell derived from choroid plexus epithelial cells, which expresses a temperature sensitive SV40

B13  
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large T-antigen gene, shows localization of Na<sup>+</sup> -K<sup>+</sup> ATPase and GLUT-1 transporter in the cell membrane, and when cultured in a monolayer, shows the localization of Na<sup>+</sup> -K<sup>+</sup> ATPase in the apical side.

5            8. The established cell according to claim 7, having a deposition number of FERM BP-6508.

Sub  
B14

9. A method of establishing an immortalized cell which expresses a temperature sensitive SV40 large T-antigen gene, shows localization of Na<sup>+</sup> -K<sup>+</sup> ATPase and GLUT-1 transporter in the cell membrane, and when cultured in a monolayer, shows the localization of Na<sup>+</sup> -K<sup>+</sup> ATPase in the apical side, the method comprising treating choroidal epithelium tissues of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced with protease and subculturing the resulting cells.

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10. An established cell which expresses a temperature sensitive SV40 large T-antigen gene, shows localization of Na<sup>+</sup> -K<sup>+</sup> ATPase and GLUT-1 transporter in the cell membrane, and when cultured in a monolayer, shows the localization of Na<sup>+</sup> -K<sup>+</sup> ATPase in the apical side, which is obtained by treating choroidal epithelium tissues of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced with protease and subculturing the resulting cells.

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25            11. An established cell derived from brain capillary endothelial cells, which expresses a temperature sensitive SV40 large T-antigen, GLUT-1 transporter, p-glycoprotein, alkaline

phosphatase, and  $\gamma$ -glutamyltransferase.

12. The established cell according to claim 11, having a deposition number of FERM BP-6873.

Sub B15 13. A method of establishing an immortalized cell which  
5 expresses a temperature sensitive SV40 large T-antigen gene, GLUT-1 transporter, p-glycoprotein, alkaline phosphatase, and  $\gamma$ -glutamyltransferase, the method comprising treating brain capillary vessels of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has  
10 been introduced with protease and subculturing the resulting cells.

14. An established cell which expresses a temperature sensitive SV40 large T-antigen gene, GLUT-1 transporter, p-glycoprotein, alkaline phosphatase, and  $\gamma$ -  
15 glutamyltransferase, the cell obtained by treating brain capillary vessels of a transgenic animal into which a large T-antigen gene of SV40 temperature sensitive mutant tsA58 has been introduced with protease and subculturing the resulting cells.

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